

## PATENT ABSTRACTS OF JAPAN

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(71)Applicant : KONICA CORP

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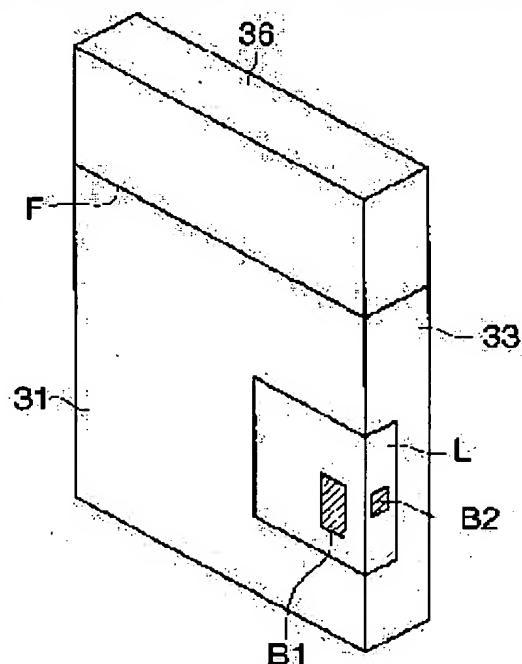
(72)Inventor : HAMAZAKI MASAHIRO  
SHIN YUICHI

## (54) X-RAY FILM PACKAGE AND INTEGRATED PACKING BODY FOR X-RAY FILM PACKAGE

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a X-ray film package which allows reading work of identification information even if the X-ray film package is not taken out of an outer box and an integrated packing body of the X-ray film packages.

**SOLUTION:** The X-ray film package of a box type is formed by displaying the identification information of X-ray films respectively on at least the two surfaces of the X-ray film package.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

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**CLAIMS**

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[Claim(s)]

[Claim 1] The roentgen film packing object which is a roentgen film packing object of an enclosed type, and is characterized for the identification information of the aforementioned roentgen film by the thing of the aforementioned roentgen film packing object displayed on each 2nd page at least.

[Claim 2] It is the roentgen film packing object according to claim 1 which the aforementioned enclosed types are six face pieces, and is characterized by the 2nd page which displayed the aforementioned identification information displaying the aforementioned identification information on each 2nd aforementioned page by continuing and sticking one tuck label over the 2nd aforementioned page which carries out continuation.

[Claim 3] The roentgen film packing object according to claim 1 or 2 with which identification information displayed on the at least 1st of the 2nd aforementioned page is characterized by including a bar code.

[Claim 4] A roentgen film packing object given in any 1 term of the claims 1-3 to which identification information displayed on the field where area is narrow between the 2nd aforementioned page is characterized by including a two dimensional code.

[Claim 5] The accumulation packing object of the roentgen film packing object which is an accumulation packing object of the roentgen film packing object which packed two or more roentgen film packing objects of a publication into any 1 term of claims 1-4, and packed them in it, and is characterized by to be packed up so that the field which displayed the identification information of the aforementioned roentgen film packing object on the opening side of the aforementioned accumulation packing object may be exposed.

[Claim 6] The accumulation packing object of the roentgen film packing object according to claim 5 with which identification information exposed to the aforementioned opening side is characterized by being a bar code or a two dimensional code.

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**DETAILED DESCRIPTION**

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[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the accumulation packing object of the roentgen film packing object which has the feature in the display position of identification information, such as a bar code and a two dimensional code, or a roentgen film packing object in detail about the accumulation packing object of a roentgen film packing object and a roentgen film packing object.

[0002]

[Description of the Prior Art] Generally, a roentgen film packing object accumulates two or more sheet-like roentgen films, seals them with a barrier bag, and is further packed with the condom box with a lid of double structure. The information for specifying the roentgen film which is an endocyst object is displayed on the front face of a condom box. The identification information defined by a bar code, a two dimensional code, etc. in which a machine readout is possible in the case of a roentgen film packing object else [, such as a product name in the design or character which are known by human being's eyes, and a manufacturing-company name, ] by specification (HIBC etc.), such as a product kind, a manufacturing company, a serial number (lot number), and the term of validity, must be displayed.

[0003] The identification information by these bar codes or the two dimensional code is used, when performing history retroactivity, the stock control in a manufacturing company, \*\* Co., and each user, and. Especially, since a roentgen film is closely involved with the quality of a medical diagnosis of product performance, you have to perform frequently and correctly management of the term of validity and product kind, and the number.

[0004] Conventionally, identification information, such as a bar code of a roentgen film packing object, is displayed on the base (slash section B) of a condom box, as are shown in drawing 7 (a) and it is shown in the transverse plane (slash section B) of a condom box, and drawing 7 (b). And circulation is performed where these roentgen film packing object plurality is packed up to a tank still like a carton box. It is packed up so that the side of a roentgen film packing object may be exposed to the opening side, if a tank is opened, and identification information, such as a bar code, will be displayed on the position which is not visible unless it takes out a roentgen film packing object from the tank concerned.

[0005] With such a packing gestalt, when there are many roentgen film packing product kinds and numbers, a tank will be opened at the stock control and history retroactivity, a packing object will be taken out to it one by one, reading work will be done on it by the bar code reader etc., and the problem to which time and effort becomes huge is in it. [ every ]

[0006]

[Problem(s) to be Solved by the Invention] The purpose of this invention is offering the accumulation packing object of the roentgen film packing object in which the reading work of identification information is possible, and a roentgen film packing object, even if it does not take out a roentgen film packing object from a tank.

[0007]

[Means for Solving the Problem] The purpose of this invention was attained by the following

composition.

[0008] (1) The roentgen film packing object which is a roentgen film packing object of an enclosed type, and is characterized for the identification information of the aforementioned roentgen film by the thing of the aforementioned roentgen film packing object displayed on each 2nd page at least.

[0009] (2) It is a roentgen film packing object given in the above (1) characterized by displaying the aforementioned identification information on each 2nd aforementioned page by the aforementioned enclosed types' being six face pieces, and the 2nd page which displayed the aforementioned identification information continuing, and sticking one tuck label over the 2nd aforementioned page which carries out continuation.

[0010] (3) The above (1) whose identification information displayed on the at least 1st of the 2nd aforementioned page is characterized by including a bar code, or a roentgen film packing object given in (2).

[0011] (4) A roentgen film packing object given in any 1 term of above-mentioned (1) - (3) to which identification information displayed on the field where area is narrow between the 2nd aforementioned page is characterized by including a two dimensional code.

[0012] (5) The above (1) The accumulation packing object of the roentgen film packing object which is the accumulation packing object of the roentgen film packing object which packed two or more roentgen film packing objects of a publication into any 1 term of - (4), and packed them in it, and is characterized by to be packed up so that the field which displayed the identification information of the aforementioned roentgen film packing object on the opening side of the aforementioned accumulation packing object is exposed.

[0013] (6) The accumulation packing object of a roentgen film packing object given in the above (5) whose identification information exposed to the aforementioned opening side is characterized by being a bar code or a two dimensional code.

[0014]

[Embodiments of the Invention] Although the gestalt of this operation is explained hereafter, referring to a drawing, this invention is not limited to this.

[0015] Drawing 1 is the \*\*\*\*\* type view showing the barrier finishing article which accumulated two or more roentgen films and was sealed with the barrier bag.

[0016] A sheet-like roentgen film is put into a bearing liner inter leaf for every sheet, and completely makes a bearing liner inter leaf unnecessary, is put in by the barrier bag which this ball could be reversed every [ every 50 sheets and ] 100 sheets, and was made with the moisture-proof film (barrier film) 11, and is made into the form which the doubling sections 12, 13, and 14 of a three way type were heat sealed, and was turned up like 12A, 13A, and 14A. This is called barrier finishing article 10. Or two things by which this ball packing of entering 50 sheet was carried out may be used as the barrier finishing article 10 in piles.

[0017] Drawing 2 is the development of the condom box which packs the barrier finishing article explained by drawing 1. The reference agreement 20 in drawing is an inner condom, and 30 is an outer condom. In the development of the inner condom 20, a transverse plane laps [ 21 ], a tooth back, and 23a and 23b lap [ 22 ], a right lateral, and 24a and 24b lap, and a left lateral and 25 constitute a base. Although the inner condom 20 is the enclosed type of six face pieces, the upper surface does not have it. In the development of the outer condom 30, a transverse plane laps [ 31 ], a tooth back, and 33a and 33b lap [ 32 ], a right lateral, and 34a and 34b lap, a base, and 36a and 36b lap, and a left lateral and 35 constitute the upper surface. Moreover, after F shown with the alternate long and short dash line sticks the outer condom 30 so that the outside of the inner condom 20 may be covered, and it forms it in an enclosed type, it is a perforated line for a cutter etc. cutting and producing a lid. a member with same this or subsequent ones and same reference mark -- a name is expressed

[0018] Drawing 3 is a \*\*\*\*\* type view when opening the lid of a roentgen film packing object. The outer condom 30 is separable into a main part and a lid, and the barrier finishing article 10 is contained by the inner condom 20 in it, and it is contained by the pan in it. Although the roentgen film packing object was made into the structure with a lid of six face pieces with the gestalt of this operation, what is necessary is just the gestalt which is not restricted to this and

can display identification information on each 2nd page.

[0019] Drawing 4 is the \*\*\*\*\* type view of the roentgen film packing object which displayed the identification information of a roentgen film on each transverse plane and right lateral of the aforementioned roentgen film packing object. In L of a reference mark, a tuck label, B1, and B-2 show identification information among drawing, respectively. By expressing both the identification information B1 and B-2 as meanses, such as printing, on one tuck label L, and sticking this tuck label L over the 2nd page of a right lateral from the transverse plane 31 of the outer condom 30, identification information B1 is displayed on the transverse plane 31 of a condom box, and identification information B-2 is displayed on the right lateral of a condom box. The tuck label L applies the charges of pasting material (paste etc.) to the rear face of the product made of paper, or a resin film, and sticks them on a condom box. About pasting to the condom box of the tuck label L, it is possible to carry out using the labeler usually known. Although considered as the gestalt which displays two identification information on one tuck label, and sticks it over the 2nd page of a roentgen film packing object with the gestalt of this operation, of course, you may express on a condom box front face as meanses, such as direct printing. However, in product various roentgen film packing objects with, it is [ unifying wrapping such as a condom box, and changing only a label direction-wise / cost ] desirable.

[0020] Drawing 5 shows one gestalt of the tuck label L explained by drawing 4 . It is the portion in which left-hand side is stuck on the transverse plane 31 of a roentgen film packing object from the chain line, and right-hand side is stuck on the right lateral 33 of a roentgen film packing object from the chain line.

[0021] The identification information B1 in a transverse plane 31 is displayed by three bar codes. A left-hand side bar code is a JAN code, and expresses the name of a country (Japan), the manufacturing company, and the product kind. The bar code of a center and right-hand side is the HIBC code, and expresses packing kinds, such as a manufacturing company, a product kind, a condom, and a tank, the term of validity, and the serial number (lot number). The HIBC code must display the content decided by specification.

[0022] Identification information B-2 in a right lateral 33 is a two dimensional code, and two-dimensional-code-izes the same content as identification information B1 as it is.

[0023] Although identification information of a transverse plane 31 and a right lateral 33 was made the same, you may make it express a part of one identification information on another side as the gestalt of this operation.

[0024] In the gestalt of this operation, since area was narrow compared with a transverse plane 31, the right lateral 33 of a condom box was two-dimensional-code-ized, without considering as a bar code. Since the same information (all information) as the identification information B1 of a transverse plane 31 can be displayed even if it is a narrow area by making identification information B-2 of a right lateral 33 into a two dimensional code, it is desirable.

[0025] Usually on the tuck label L, the design and the display in a character etc. are made besides identification information, such as a bar code and a two dimensional code.

[0026] Drawing 6 is a \*\*\*\*\* type view showing the accumulation packing object of the roentgen film packing object which packed two or more roentgen film packing objects of this invention collectively. Among drawing, 40 of a reference mark is tanks, such as a carton box, and 41a, 41b, 41c, and 41d are the flaps of the opening side of a tank 40.

[0027] If the flaps 41a, 41b, 41c, and 41d of a tank 40 are opened, two or more roentgen film packing objects expose the right lateral 33, and are contained. Some tuck labels L have appeared in the right lateral 33 of a roentgen film packing object, and identification information B-2 of the roentgen film concerned is displayed on it. Identification information B-2 is information in which machine reading by the bar code, the two dimensional code, etc. is possible.

[0028] Thus, even if it does not take out a roentgen film packing object from a tank by having carried out accumulation packing so that the field which the roentgen film packing object boiled the 2nd page, respectively, displayed the identification information of the roentgen film concerned, and displayed the identification information concerned on the opening side of a tank may be exposed, the reading work of identification information is attained, and stock control and history retroactivity came to be able to make an effort there be nothing.

[0029]

[Effect of the Invention] It is offering the accumulation packing object of the roentgen film packing object in which the reading work of identification information is possible, and a roentgen film packing object, even if it does not take out a roentgen film packing object from a tank.

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**TECHNICAL FIELD**

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[The technical field to which invention belongs] this invention relates to the accumulation packing object of the roentgen film packing object which has the feature in the display position of identification information, such as a bar code and a two dimensional code, or a roentgen film packing object in detail about the accumulation packing object of a roentgen film packing object and a roentgen film packing object.

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PRIOR ART

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[Description of the Prior Art] Generally, a roentgen film packing object accumulates two or more sheet-like roentgen films, seals them with a barrier bag, and is further packed with the condom box with a lid of double structure. The information for specifying the roentgen film which is an endocyst object is displayed on the front face of a condom box. The identification information defined by a bar code, a two dimensional code, etc. in which a machine readout is possible in the case of a roentgen film packing object else [, such as a product name in the design or character which are known by human being's eyes, and a manufacturing-company name, ] by specification (HIBC etc.), such as a product kind, a manufacturing company, a serial number (lot number), and the term of validity, must be displayed.

[0003] The identification information by these bar codes or the two dimensional code is used, when performing history retroactivity, the stock control in a manufacturing company, \*\* Co., and each user, and. Especially, since a roentgen film is closely involved with the quality of a medical diagnosis of product performance, you have to perform frequently and correctly management of the term of validity and product kind, and the number.

[0004] Conventionally, identification information, such as a bar code of a roentgen film packing object, is displayed on the base (slash section B) of a condom box, as are shown in drawing 7 (a) and it is shown in the transverse plane (slash section B) of a condom box, and drawing 7 (b). And circulation is performed where these roentgen film packing object plurality is packed up to a tank still like a carton box. It is packed up so that the side of a roentgen film packing object may be exposed to the opening side, if a tank is opened, and identification information, such as a bar code, will be displayed on the position which is not visible unless it takes out a roentgen film packing object from the tank concerned.

[0005] With such a packing gestalt, when there are many roentgen film packing product kinds and numbers, a tank will be opened at the stock control and history retroactivity, a packing object will be taken out to it one by one, reading work will be done on it by the bar code reader etc., and the problem to which time and effort becomes huge is in it. [ every ]

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**EFFECT OF THE INVENTION**

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[Effect of the Invention] It is offering the accumulation packing object of the roentgen film packing object in which the reading work of identification information is possible, and a roentgen film packing object, even if it does not take out a roentgen film packing object from a tank.

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**TECHNICAL PROBLEM**

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[Problem(s) to be Solved by the Invention] The purpose of this invention is offering the accumulation packing object of the roentgen film packing object in which the reading work of identification information is possible, and a roentgen film packing object, even if it does not take out a roentgen film packing object from a tank.

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MEANS

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[Means for Solving the Problem] The purpose of this invention was attained by the following composition.

[0008] (1) The roentgen film packing object which is a roentgen film packing object of an enclosed type, and is characterized for the identification information of the aforementioned roentgen film by the thing of the aforementioned roentgen film packing object displayed on each 2nd page at least.

[0009] (2) It is a roentgen film packing object given in the above (1) characterized by displaying the aforementioned identification information on each 2nd aforementioned page by the aforementioned enclosed types' being six face pieces, and the 2nd page which displayed the aforementioned identification information continuing, and sticking one tuck label over the 2nd aforementioned page which carries out continuation.

[0010] (3) The above (1) whose identification information displayed on the at least 1st of the 2nd aforementioned page is characterized by including a bar code, or a roentgen film packing object given in (2).

[0011] (4) A roentgen film packing object given in any 1 term of above-mentioned (1) - (3) to which identification information displayed on the field where area is narrow between the 2nd aforementioned page is characterized by including a two dimensional code.

[0012] (5) The above (1) The accumulation packing object of the roentgen film packing object which is the accumulation packing object of the roentgen film packing object which packed two or more roentgen film packing objects of a publication into any 1 term of - (4), and packed them in it, and is characterized by to be packed up so that the field which displayed the identification information of the aforementioned roentgen film packing object on the opening side of the aforementioned accumulation packing object is exposed.

[0013] (6) The accumulation packing object of a roentgen film packing object given in the above (5) whose identification information exposed to the aforementioned opening side is characterized by being a bar code or a two dimensional code.

[0014]

[Embodiments of the Invention] Although the gestalt of this operation is explained hereafter, referring to a drawing, this invention is not limited to this.

[0015] Drawing 1 is the \*\*\*\*\* type view showing the barrier finishing article which accumulated two or more roentgen films and was sealed with the barrier bag.

[0016] A sheet-like roentgen film is put into a bearing liner inter leaf for every sheet, and completely makes a bearing liner inter leaf unnecessary, is put in by the barrier bag which this ball could be reversed every [ every 50 sheets and ] 100 sheets, and was made with the moisture-proof film (barrier film) 11, and is made into the form which the doubling sections 12, 13, and 14 of a three way type were heat sealed, and was turned up like 12A, 13A, and 14A. This is called barrier finishing article 10. Or two things by which this ball packing of entering 50 sheet was carried out may be used as the barrier finishing article 10 in piles.

[0017] Drawing 2 is the development of the condom box which packs the barrier finishing article explained by drawing 1 . The reference agreement 20 in drawing is an inner condom, and 30 is an outer condom. In the development of the inner condom 20, a transverse plane laps [ 21 ], a tooth

back, and 23a and 23b lap [ 22 ], a right lateral, and 24a and 24b lap, and a left lateral and 25 constitute a base. Although the inner condom 20 is the enclosed type of six face pieces, the upper surface does not have it. In the development of the outer condom 30, a transverse plane laps [ 31 ], a tooth back, and 33a and 33b lap [ 32 ], a right lateral, and 34a and 34b lap, a base, and 36a and 36b lap, and a left lateral and 35 constitute the upper surface. Moreover, after F shown with the alternate long and short dash line sticks the outer condom 30 so that the outside of the inner condom 20 may be covered, and it forms it in an enclosed type, it is a perforated line for a cutter etc. cutting and producing a lid. a member with same this or subsequent ones and same reference mark — a name is expressed

[0018] Drawing 3 is a \*\*\*\*\* type view when opening the lid of a roentgen film packing object. The outer condom 30 is separable into a main part and a lid, and the barrier finishing article 10 is contained by the inner condom 20 in it, and it is contained by the pan in it. Although the roentgen film packing object was made into the structure with a lid of six face pieces with the gestalt of this operation, what is necessary is just the gestalt which is not restricted to this and can display identification information on each 2nd page.

[0019] Drawing 4 is the \*\*\*\*\* type view of the roentgen film packing object which displayed the identification information of a roentgen film on each transverse plane and right lateral of the aforementioned roentgen film packing object. In L of a reference mark, a tuck label, B1, and B-2 show identification information among drawing, respectively. By expressing both the identification information B1 and B-2 as meanses, such as printing, on one tuck label L, and sticking this tuck label L over the 2nd page of a right lateral from the transverse plane 31 of the outer condom 30, identification information B1 is displayed on the transverse plane 31 of a condom box, and identification information B-2 is displayed on the right lateral of a condom box. The tuck label L applies the charges of pasting material (paste etc.) to the rear face of the product made of paper, or a resin film, and sticks them on a condom box. About pasting to the condom box of the tuck label L, it is possible to carry out using the labeler usually known. Although considered as the gestalt which displays two identification information on one tuck label, and sticks it over the 2nd page of a roentgen film packing object with the gestalt of this operation, of course, you may express on a condom box front face as meanses, such as direct printing. However, in product various roentgen film packing objects with, it is [ unifying wrapping such as a condom box, and changing only a label direction-wise / cost ] desirable.

[0020] Drawing 5 shows one gestalt of the tuck label L explained by drawing 4 . It is the portion in which left-hand side is stuck on the transverse plane 31 of a roentgen film packing object from the chain line, and right-hand side is stuck on the right lateral 33 of a roentgen film packing object from the chain line.

[0021] The identification information B1 in a transverse plane 31 is displayed by three bar codes. A left-hand side bar code is a JAN code, and expresses the name of a country (Japan), the manufacturing company, and the product kind. The bar code of a center and right-hand side is the HIBC code, and expresses packing kinds, such as a manufacturing company, a product kind, a condom, and a tank, the term of validity, and the serial number (lot number). The HIBC code must display the content decided by specification.

[0022] Identification information B-2 in a right lateral 33 is a two dimensional code, and two-dimensional-code-izes the same content as identification information B1 as it is.

[0023] Although identification information of a transverse plane 31 and a right lateral 33 was made the same, you may make it express a part of one identification information on another side as the gestalt of this operation.

[0024] In the gestalt of this operation, since area was narrow compared with a transverse plane 31, the right lateral 33 of a condom box was two-dimensional-code-ized, without considering as a bar code. Since the same information (all information) as the identification information B1 of a transverse plane 31 can be displayed even if it is a narrow area by making identification information B-2 of a right lateral 33 into a two dimensional code, it is desirable.

[0025] Usually on the tuck label L, the design and the display in a character etc. are made besides identification information, such as a bar code and a two dimensional code.

[0026] Drawing 6 is a \*\*\*\*\* type view showing the accumulation packing object of the roentgen

film packing object which packed two or more roentgen film packing objects of this invention collectively. Among drawing, 40 of a reference mark is tanks, such as a carton box, and 41a, 41b, 41c, and 41d are the flaps of the opening side of a tank 40.

[0027] If the flaps 41a, 41b, 41c, and 41d of a tank 40 are opened, two or more roentgen film packing objects expose the right lateral 33, and are contained. Some tuck labels L have appeared in the right lateral 33 of a roentgen film packing object, and identification information B-2 of the roentgen film concerned is displayed on it. Identification information B-2 is information in which machine reading by the bar code, the two dimensional code, etc. is possible.

[0028] Thus, even if it does not take out a roentgen film packing object from a tank by having carried out accumulation packing so that the field which the roentgen film packing object boiled the 2nd page, respectively, displayed the identification information of the roentgen film concerned, and displayed the identification information concerned on the opening side of a tank may be exposed, the reading work of identification information is attained, and stock control and history retroactivity came to be able to make an effort there be nothing.

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**DESCRIPTION OF DRAWINGS**

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**[Brief Description of the Drawings]**

[Drawing 1] It is the \*\*\*\* type view showing the barrier finishing article which accumulated two or more roentgen films and was sealed with the barrier bag.

[Drawing 2] It is the development of the condom box which packs the barrier finishing article explained by drawing 1 .

[Drawing 3] It is a \*\*\*\* type view when opening the lid of a roentgen film packing object.

[Drawing 4] It is the \*\*\*\* type view of the roentgen film packing object which displayed the identification information of a roentgen film on each transverse plane and right lateral of the aforementioned roentgen film packing object.

[Drawing 5] One gestalt of the tuck label explained by drawing 4 is shown.

[Drawing 6] It is a \*\*\*\* type view showing the accumulation packing object of the roentgen film packing object which packed two or more roentgen film packing objects of this invention collectively.

[Drawing 7] It is a \*\*\*\* type view for explaining the display position of the identification information of the conventional roentgen film packing object.

**[Description of Notations]**

10 Barrier Finishing Article

20 Inner Condom

30 Outer Condom

31 Transverse Plane

33 Right Lateral

40 Tank

L Tuck label

B1, B-2 Identification information

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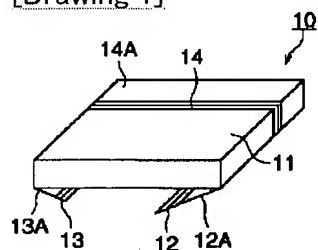
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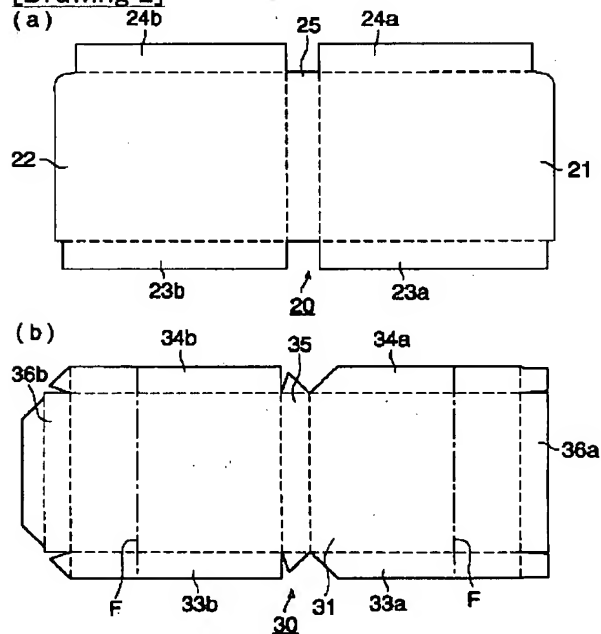
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## DRAWINGS

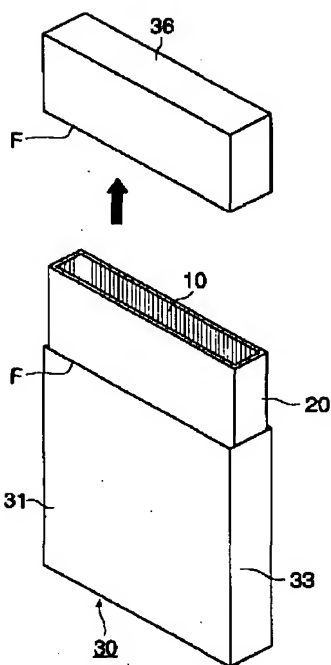
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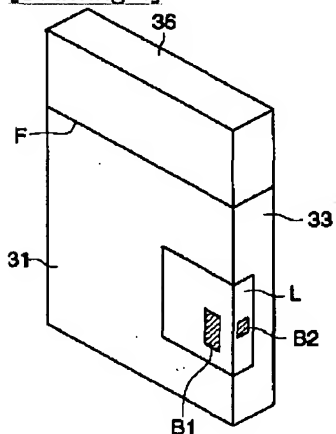
[Drawing 2]



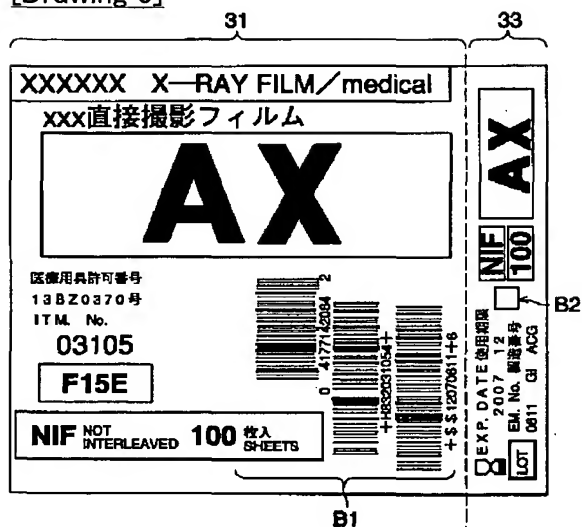
[Drawing 3]



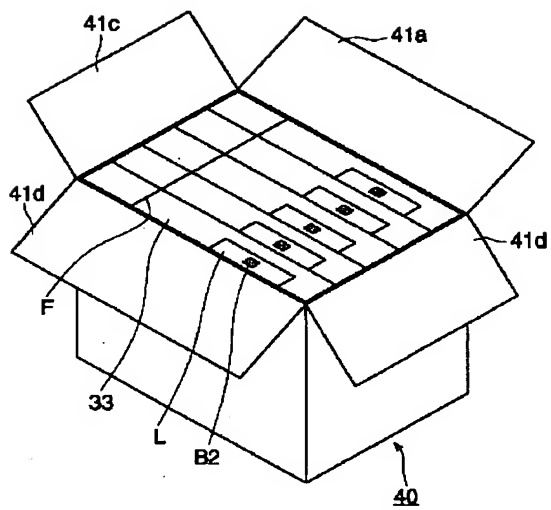
[Drawing 4]



[Drawing 5]

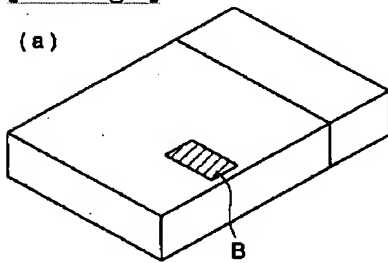


[Drawing 6]

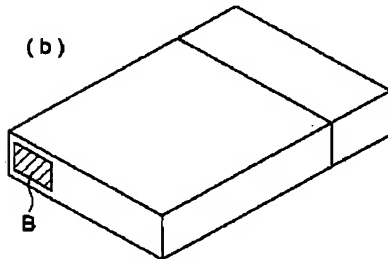


[Drawing 7]

(a)



(b)



[Translation done.]

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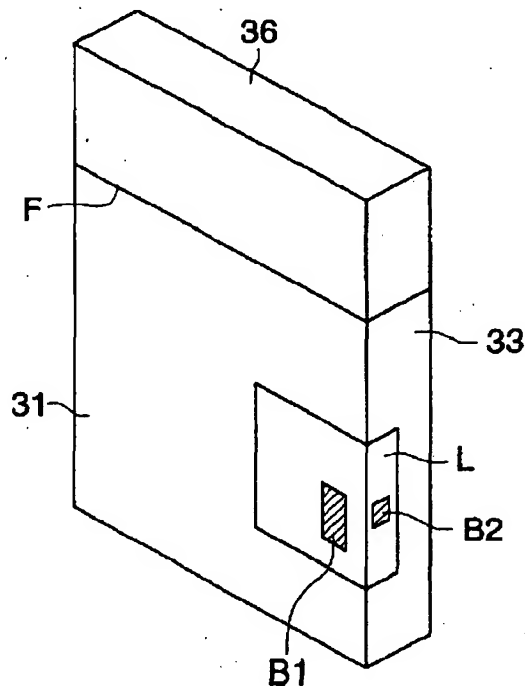
FA03 FC01 GD10

(54) 【発明の名称】 レントゲンフィルム包装体およびレントゲンフィルム包装体の集積梱包体

(57) 【要約】

【課題】 外箱からレントゲンフィルム包装体を取り出さなくとも、識別情報の読み取り作業が可能なレントゲンフィルム包装体およびレントゲンフィルム包装体の集積梱包体を提供する。

【解決手段】 箱形のレントゲンフィルム包装体であって、前記レントゲンフィルムの識別情報を前記レントゲンフィルム包装体の少なくとも2面それぞれに表示したことを特徴とするレントゲンフィルム包装体。



**【特許請求の範囲】**

**【請求項1】** 箱形のレントゲンフィルム包装体であって、前記レントゲンフィルムの識別情報を前記レントゲンフィルム包装体の少なくとも2面それぞれに表示したことを特徴とするレントゲンフィルム包装体。

**【請求項2】** 前記箱形が6面体であり、前記識別情報を表示した2面は連続しており、一枚のタックラベルを前記連続する2面に渡って貼付することにより、前記2面それぞれに前記識別情報を表示したことを特徴とする請求項1に記載のレントゲンフィルム包装体。

**【請求項3】** 前記2面のうち少なくとも1面に表示された識別情報が、バーコードを含むことを特徴とする請求項1または2に記載のレントゲンフィルム包装体。

**【請求項4】** 前記2面のうち面積の狭い面に表示された識別情報が、2次元コードを含むことを特徴とする請求項1～3のいずれか1項に記載のレントゲンフィルム包装体。

**【請求項5】** 請求項1～4のいずれか1項に記載のレントゲンフィルム包装体を複数まとめて包装したレントゲンフィルム包装体の集積梱包体であって、前記集積梱包体の開封面に、前記レントゲンフィルム包装体の識別情報を表示した面が露出するように梱包されていることを特徴とするレントゲンフィルム包装体の集積梱包体。

**【請求項6】** 前記開封面に露出する識別情報が、バーコードまたは2次元コードであることを特徴とする請求項5に記載のレントゲンフィルム包装体の集積梱包体。

**【発明の詳細な説明】****【0001】**

**【発明の属する技術分野】** 本発明は、レントゲンフィルム包装体およびレントゲンフィルム包装体の集積梱包体に関し、詳しくは、バーコードや2次元コード等の識別情報の表示位置に特徴のあるレントゲンフィルム包装体またはレントゲンフィルム包装体の集積梱包体に関する。

**【0002】**

**【従来の技術】** レントゲンフィルム包装体は、一般に、シート状のレントゲンフィルムを複数枚積み重ねて、バリヤ袋で密閉し、さらに2重構造の蓋付きサック箱で包装されたものである。サック箱の表面には、内包物であるレントゲンフィルムを特定するための情報が表示されている。人間の目で判る意匠や文字による製品名、製造会社名等の他に、レントゲンフィルム包装体の場合は、機械読みとりが可能なバーコードや2次元コード等によって、製品種、製造会社、製造番号（ロット番号）、有効期限等規格（HIBC等）で定められた識別情報が表示されなければならない。

**【0003】** これらバーコードや2次元コードによる識別情報は、製造会社、販社およびユーザそれぞれにおける在庫管理や、履歴遡及を行う場合に使用される。とりわけレントゲンフィルムは、製品性能が医療診断の質と

密接に係わるため、その有効期限や製品種および個数の管理は、頻繁に、且つ、正確に行わなければならない。

**【0004】** 従来、レントゲンフィルム包装体のバーコード等の識別情報は、図7（a）に示すようにサック箱の正面（斜線部B）や、図7（b）に示すようにサック箱の底面（斜線部B）に表示されている。そして、これらのレントゲンフィルム包装体複数個を、さらに段ボール箱のような外箱に梱包した状態で流通が行われている。外箱を開封すると、その開封面には、レントゲンフィルム包装体の側面が露出するように梱包されており、バーコード等の識別情報は、レントゲンフィルム包装体を、当該外箱から取り出さないと見えない位置に表示されていることになる。

**【0005】** このような包装形態では、レントゲンフィルム包装体の製品種や数が多い場合、その在庫管理や履歴遡及のたびに、外箱を開けて、いちいち包装体を取り出し、バーコードリーダー等で読み取り作業を行うことになり、手間が膨大になる問題がある。

**【0006】**

**【発明が解決しようとする課題】** 本発明の目的は、外箱からレントゲンフィルム包装体を取り出さなくとも、識別情報の読み取り作業が可能なレントゲンフィルム包装体およびレントゲンフィルム包装体の集積梱包体を提供することである。

**【0007】**

**【課題を解決するための手段】** 本発明の目的は、以下の構成により達成された。

**【0008】** （1）箱形のレントゲンフィルム包装体であって、前記レントゲンフィルムの識別情報を前記レントゲンフィルム包装体の少なくとも2面それぞれに表示したことを特徴とするレントゲンフィルム包装体。

**【0009】** （2）前記箱形が6面体であり、前記識別情報を表示した2面は連続しており、一枚のタックラベルを前記連続する2面に渡って貼付することにより、前記2面それぞれに前記識別情報を表示したことを特徴とする上記（1）に記載のレントゲンフィルム包装体。

**【0010】** （3）前記2面のうち少なくとも1面に表示された識別情報が、バーコードを含むことを特徴とする上記（1）または（2）に記載のレントゲンフィルム包装体。

**【0011】** （4）前記2面のうち面積の狭い面に表示された識別情報が、2次元コードを含むことを特徴とする上記（1）～（3）のいずれか1項に記載のレントゲンフィルム包装体。

**【0012】** （5）上記（1）～（4）のいずれか1項に記載のレントゲンフィルム包装体を複数まとめて包装したレントゲンフィルム包装体の集積梱包体であって、前記集積梱包体の開封面に、前記レントゲンフィルム包装体の識別情報を表示した面が露出するように梱包されていることを特徴とするレントゲンフィルム包装体の集

積梱包体。

【0013】(6)前記開封面に露出する識別情報が、バーコードまたは2次元コードであることを特徴とする上記(5)に記載のレントゲンフィルム包装体の集積梱包体。

【0014】

【発明の実施の形態】以下、本実施の形態を図面を参照しながら説明するが、本発明はこれに限定されるものではない。

【0015】図1は、レントゲンフィルム複数枚を積み重ねてバリヤ袋で密閉したバリヤ済み品を示す斜視模式図である。

【0016】シート状のレントゲンフィルムは、1枚毎にインターリーフが入れられたり、また全くインターリーフを不用としたりして50枚毎又は100枚毎に当ボールを覆せられ、防湿フィルム(バリヤフィルム)11で出来たバリヤ袋に入れられ、三方の合わせ部12、13、14をヒートシールされ12A、13A、14Aのように折り返された形にされる。これをバリヤ済み品10という。或いは50枚入りの当ボール包装されたものを2つ重ねてバリヤ済み品10にすることもある。

【0017】図2は、図1で説明したバリヤ済み品を包装するサック箱の展開図である。図中の参照符号20はインナーサック、30はアウターサックである。インナーサック20の展開図において、21が正面、22が背面、23aおよび23bが重なって右側面、24aおよび24bが重なって左側面、25が底面を構成する。インナーサック20は、6面体の箱形であるが、上面はない。アウターサック30の展開図において、31が正面、32が背面、33aおよび33bが重なって右側面、34aおよび34bが重なって左側面、35が底面、36aおよび36bが重なって上面を構成する。また、一点鎖線で示したFは、アウターサック30をインナーサック20の外側を覆うように貼付して箱形に形成した後、カッター等で切断して蓋を作製するための切り取り線である。これ以降、同じ参照符号は、同様の部材名を表す。

【0018】図3は、レントゲンフィルム包装体の蓋を開けたときの斜視模式図である。アウターサック30は本体と蓋に分離可能であり、その中にインナーサック20、さらにその中にバリヤ済み品10が収納される。本実施の形態では、レントゲンフィルム包装体を6面体の蓋付き構造としたが、これに限られるものではなく、2面それぞれに識別情報を表示できる形態であればよい。

【0019】図4は、レントゲンフィルムの識別情報を前記レントゲンフィルム包装体の正面および右側面それぞれに表示したレントゲンフィルム包装体の斜視模式図である。図中、参照符号のLはタックラベル、B1およびB2は、それぞれ識別情報を示す。識別情報B1およびB2はともに一枚のタックラベルL上に印刷等の手段

で表示されており、このタックラベルLを、アウターサック30の正面31から右側面の2面に渡って貼付することによって、識別情報B1をサック箱の正面31に、また、識別情報B2をサック箱の右側面に表示する。タックラベルLは、紙製ないしは樹脂フィルムの裏面に貼付用材料(糊等)を塗布して、サック箱に貼付する。タックラベルLのサック箱への貼付については、通常知られているラベラーを用いて行うことが可能である。本実施の形態では、一枚のタックラベルに識別情報を2箇所表示して、それをレントゲンフィルム包装体の2面に渡って貼付する形態としたが、もちろんサック箱表面に直接印刷等の手段で表示しても構わない。しかし、製品種が多岐にわたるレントゲンフィルム包装体においては、サック箱等の包装材料を統一して、ラベルのみ変更する方が、コスト的には好ましい。

【0020】図5は、図4で説明したタックラベルLの一形態を示したものである。鎖線から左側がレントゲンフィルム包装体の正面31に、鎖線から右側がレントゲンフィルム包装体の右側面33に貼付される部分である。

【0021】正面31における識別情報B1は、3本のバーコードで表示されている。左側のバーコードは、JANコードであり、国名(日本)、製造会社、製品種を表している。中央および右側のバーコードは、HIBCコードで、製造会社、製品種、サックや外箱等の包装種、有効期限、製造番号(ロット番号)を表している。HIBCコードは、規格で決められた内容を表示しなければならない。

【0022】右側面33における識別情報B2は、2次元コードになっており、識別情報B1と同じ内容をそのまま2次元コード化したものである。

【0023】本実施の形態では、正面31と右側面33の識別情報を同一としたが、一方の識別情報の一部のみを、他方に表示するようにしても構わない。

【0024】本実施の形態においては、サック箱の右側面33は正面31に比べて面積が狭いため、バーコードとせずに、2次元コード化した。右側面33の識別情報B2を2次元コードとすることによって、狭い面積であっても、正面31の識別情報B1と同一の情報(全ての情報)を表示することが出来るので好ましい。

【0025】タックラベルL上には、バーコードや2次元コード等の識別情報の他に、意匠や、文字等による表示がなされているのが通常である。

【0026】図6は、本発明のレントゲンフィルム包装体を複数まとめて包装したレントゲンフィルム包装体の集積梱包体を表す斜視模式図である。図中、参照符号の40は段ボール箱等の外箱、41a、41b、41cおよび41dは、外箱40の開封面のフラップである。

【0027】外箱40のフラップ41a、41b、41cおよび41dを開封すると、複数のレントゲンフィル

ム包装体が、その右側面 33 を露出して収納されている。レントゲンフィルム包装体の右側面 33 には、タックラベル L の一部が現れており、当該レントゲンフィルムの識別情報 B 2 が表示されている。識別情報 B 2 は、バーコードや 2 次元コード等による機械読み取りが可能な情報である。

【0028】このようにレントゲンフィルム包装体の 2 面それぞれに当該レントゲンフィルムの識別情報を表示し、外箱の開封面に当該識別情報を表示した面が露出するように集積梱包したことによって、外箱からレントゲンフィルム包装体を取り出さなくとも、識別情報の読み取り作業が可能となり、在庫管理や、履歴遡及が労力なくできるようになった。

【0029】

【発明の効果】外箱からレントゲンフィルム包装体を取り出さなくとも、識別情報の読み取り作業が可能なレントゲンフィルム包装体およびレントゲンフィルム包装体の集積梱包体を提供することである。

【図面の簡単な説明】

【図 1】レントゲンフィルム複数枚を積み重ねてバリヤ袋で密閉したバリヤ済み品を示す斜視模式図である。

【図 2】図 1 で説明したバリヤ済み品を包装するサック

箱の展開図である。

【図 3】レントゲンフィルム包装体の蓋を開けたときの斜視模式図である。

【図 4】レントゲンフィルムの識別情報を前記レントゲンフィルム包装体の正面および右側面それぞれに表示したレントゲンフィルム包装体の斜視模式図である。

【図 5】図 4 で説明したタックラベルの一形態を示したものである。

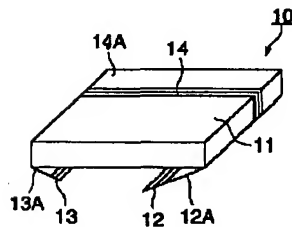
【図 6】本発明のレントゲンフィルム包装体を複数まとめて包装したレントゲンフィルム包装体の集積梱包体を表す斜視模式図である。

【図 7】従来のレントゲンフィルム包装体の識別情報の表示位置を説明するための斜視模式図である。

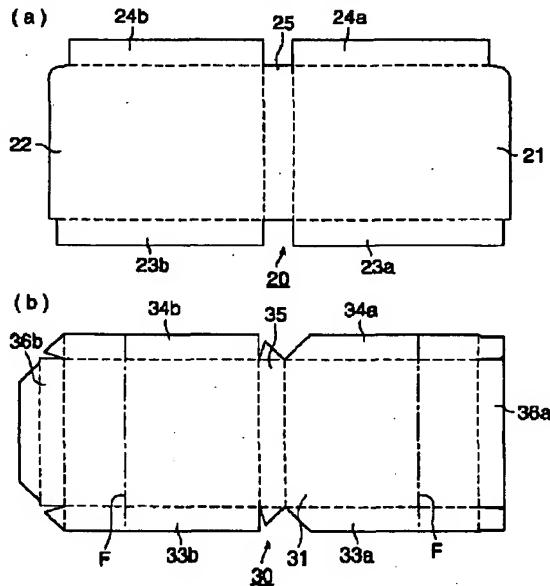
【符号の説明】

- 10 バリヤ済み品
- 20 インナーサック
- 30 アウターサック
- 31 正面
- 33 右側面
- 40 外箱
- L タックラベル
- B1, B2 識別情報

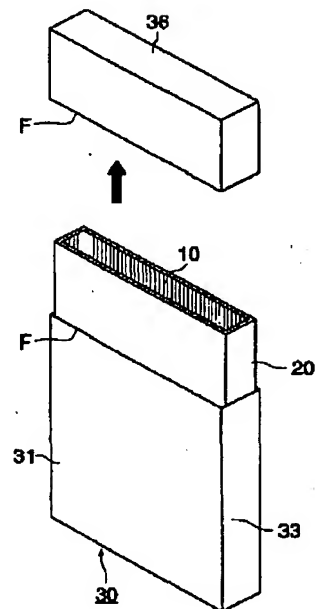
【図 1】

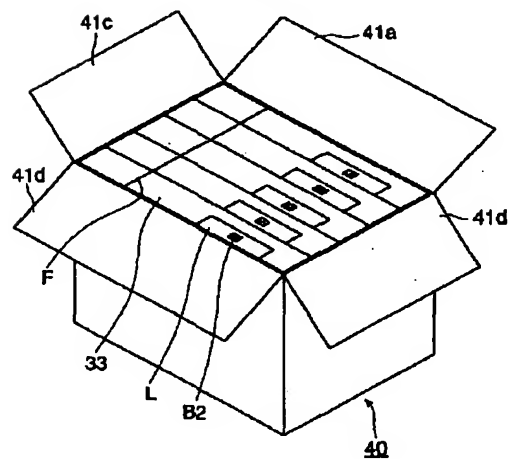
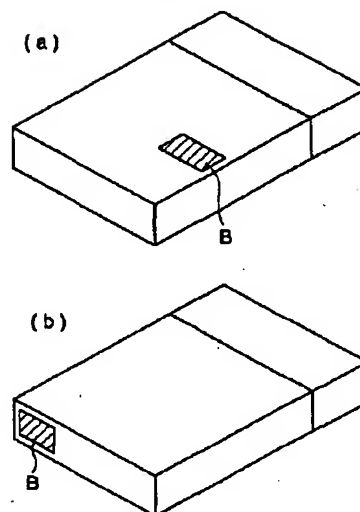
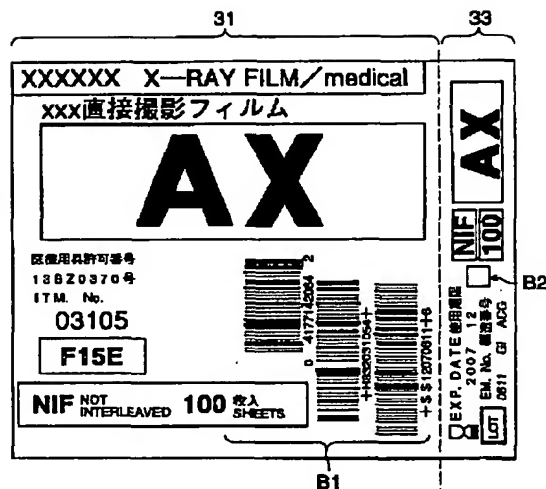
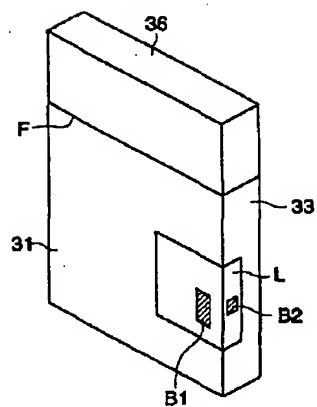


【図 2】



【図 3】





フロントページの続き

(51)Int.Cl. <sup>7</sup>	識別記号	F I	マークシート(参考)
G 0 3 C 3/00	5 7 2	G 0 3 C 3/00	5 7 2 A
	5 9 0	5 9 0 D	
B 6 5 D 77/04		B 6 5 D 77/04	D
81/30		81/30 C	